

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 9572WO/UR	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/SE 2004/002059	International filing date (day/month/year) 30 December 2004	(Earliest) Priority Date (day/month/year) 31 December 2003
Applicant ABB AB et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/002059

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G01B 11/30, B21B 37/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G01B, B21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1110635 A1 (ABB AB), 27 June 2001 (27.06.2001), paragraphs [0006]; [0031]	1
A	--	2-22
A	US 5583639 A (ROSTVALL, T), 10 December 1996 (10.12.1996), the whole document	1-22
A	--	
A	US 6351269 B1 (GEORGIEV, T), 26 February 2002 (26.02.2002), the whole document	1-22
A	--	
A	US 6275032 B1 (IWATA, T ET AL), 14 August 2001 (14.08.2001), the whole document	1-22
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☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

12 April 2005

Date of mailing of the international search report

22-04-2005

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INTERNATIONAL SEARCH REPORT

Information on patent family members

01/04/2005

International application No.

PCT/SE 2004/002059

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EP	1110635	A1	27/06/2001	SE	1110635	T3	
				AT	255964	T	15/12/2003
				DE	69913538	D,T	30/09/2004
				US	6513358	B	04/02/2003
				US	20020020198	A	21/02/2002

US	5583639	A	10/12/1996	AU	658469	B	13/04/1995
				AU	3121393	A	19/07/1993
				CA	2103809	A,C	11/06/1993
				DE	4391183	T	23/02/1995
				DE	69220661	D,T	16/10/1997
				EP	0571596	A,B	01/12/1993
				SE	0571596	T3	
				FI	106672	B	00/00/0000
				FI	933458	A	03/08/1993
				HK	1000951	A	00/00/0000
				JP	3154490	B	09/04/2001
				JP	6507771	T	01/09/1994
				JP	7504751	T	25/05/1995
				SE	470029	B,C	25/10/1993
				SE	9200846	A	20/09/1993
				WO	9319345	A	30/09/1993
				SE	470436	B,C	07/03/1994
				SE	9300216	A	07/03/1994

US	6351269	B1	26/02/2002	NONE		
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US	6275032	B1	14/08/2001	JP	11183115	A	09/07/1999
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